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**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A ~~improved~~ method for displaying ~~display of~~ a transitional region of interest while transitioning between first and second locations for the ~~a~~first region of interest and ~~a~~second region of interest within visual information on a display screen of a computer, said method comprising the steps of :

applying a transformation to the visual information to improve visual detail in a border region of the region of interest by: creating a lens surface for the border region having a predetermined lens surface shape; and, creating a presentation by overlaying the visual information on the lens surface and projecting the lens surface with the visual information onto a plane in a viewer-aligned direction; and,

applying a transitional transformation to said visual information, said transitional transformation requiring reduced calculations for transforming said visual information to transitional transformed visual information; and

displaying the presentation said transitional transformed visual information on the said display screen.

2. (Currently Amended) The method of claim 1 wherein ~~said transitional~~ the transformation ~~transforms~~ ~~reduces~~ ~~calculations~~ by transforming only a portion of ~~said~~ the visual information in ~~the~~ said transitional region of interest.

3. (Currently Amended) The method of claim 2 wherein the ~~said~~ portion of ~~said~~ visual information in ~~said~~ transitional region of interest is a the border of the ~~said~~ transitional region of interest.

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4. (Currently Amended) The method of claim 1 ~~3~~ wherein the border region ~~said portion of said visual information in said transitional region of interest~~ is a periphery of the said transitional region of interest.

5. (Currently Amended) The method of claim 1 ~~3~~ wherein the lens surface for the border region is defined by a distortion function ~~said step of applying a transitional transformation~~ further comprises the steps of:

~~creating an intermediary lens surface having a predetermined shape for said transitional region of interest; and~~

~~creating said transitional transformed visual information by overlaying said visual information on said transitional lens surface and projecting said lens surface with said overlaid visual information onto a plane~~.

6. (Currently Amended) The method of claim 1 ~~5~~ wherein said predetermined shape of said transitional lens surface the lens surface for the border region is defined by a predetermined portion of a first lens surface for rendering the said first region of interest.

7. (Currently Amended) The method of claim 6 wherein the said predetermined portion is a border region of the said first lens surface for rendering the region of interest.

8. (Currently Amended) The method of claim 7 wherein the said predetermined portion is a periphery of the said first lens surface for rendering the region of interest.

9. (Cancelled)

10. (Currently Amended) The method of claim 1 ~~9~~ and further comprising the step of: selecting establishing a said path between the said first region of interest and said second locations for the region of interest.

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11. (Currently Amended) The method of claim 10 9 wherein the path is established automatically by a predetermined program ~~said predetermined portion of said transitional region of interest is the border of said transitional region of interest~~.

12. (Currently Amended) The method of claim 10 9 wherein the path is established by user selection ~~said predetermined portion of said transitional region of interest is the periphery of said transitional region of interest~~.

13. (Currently Amended) The method of claim 1 and further comprising A method for displaying visual information on a display screen of a computer, said method comprising the steps of:

~~selecting a region of interest within said visual information;~~  
~~applying a transformation to said visual information for improving visual detail and presentation quality in said region of interest, said transformation for overlaying said visual information on a lens surface, said lens surface having predetermined shape for said region of interest;~~  
~~projecting said lens surface with said overlaid visual information onto a plane;~~  
~~increasing resolution of the said visual information in the said region of interest; and,~~  
~~decreasing resolution of the said visual information outside the said region of interest;~~  
~~and~~  
~~displaying said transformed visual information on said display screen.~~

14. (Currently Amended) The method of claim 13 wherein the transformation method further provides a smooth transition to the ~~said~~ region of interest from an adjacent region, ~~said smooth transition resulting from~~ by blending ~~said~~ increased and ~~said~~ decreased resolution visual information in predefined regions adjacent to the ~~said~~ region of interest.

15. (Currently Amended) The method of claim 14 wherein said step of ~~the~~ blending is performed accomplished by averaging ~~said~~ the increased and ~~said~~ decreased resolution visual information.

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16. (Currently Amended) The method of claim 14 wherein said step of the blending is performed accomplished by admixing said the increased and said decreased resolution visual information.

17. (Currently Amended) The method of claim 14 and further comprising transmitting the presentation over a network to a remote computer A data carrier having stored thereon instructions for improving display of a transitional region while transitioning between a first region of interest and a second region of interest within visual information on a display screen of a computer, said instructions comprising the steps of:

applying a transitional transformation to said visual information, said transitional transformation having a reduced a number of calculations required for rendering said transitional transformed visual information; and  
displaying said transitional transformed visual information on said display screen .

18. (Currently Amended) The method of claim 1 wherein the visual information includes a A method for use with portable document format (PDF) document files for displaying visual information on a display screen of a computer, comprising the steps of:

scaling said visual information to produce a sealed representation to fit on said display screen said sealed representation containing the entire content of said visual information; selecting a region of interest within said sealed representation; applying a transformation to said sealed representation to improve the visual detail in said region of interest; and  
displaying said transformed representation on said display screen .

19. (Currently Amended) The method of claim 6 18 wherein the lens surface for rendering the region of interest is defined by the distortion function said step of applying a transformation further comprising the steps of: creating a lens surface of predetermined shape for said region of interest; and creating a transformed representation by overlaying said sealed representation on said lens surface and projecting said lens surface with said overlaid sealed representation onto a plane .

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20. (Currently Amended) The method of claim 1 ~~19~~ wherein the said region of interest, the said lens surface, and the said lens surface shape include a plurality of regions of interest, a plurality of lens surfaces, and a plurality of lens surface shapes, respectively.

21. (Currently Amended) The method of claim 1 ~~18~~ wherein the said visual information includes ~~is selected from the group consisting of~~ newspapers, magazines, telephone directories, and maps.

22. (Currently Amended) The method of claim 1 ~~18~~ wherein the said visual information includes web page content.

23. (Currently Amended) The method of claim 1 ~~18~~ wherein the said display screen is contained in a handheld device.

24. (Currently Amended) The method of claim 1 ~~18~~ wherein the said visual information is a newspaper page.

25. (Currently Amended) The method of claim 24 wherein the said newspaper page includes a plurality of headlines, columns, articles, graphics, and advertisements.

26. (Currently Amended) The method of claim 25 wherein the said region of interest includes ~~is selected from the group consisting of~~ a headline, a column, an article, a graphic, and an advertisement.

27. (Currently Amended) The method of claim 26 wherein the said lens surface shape has a ~~includes the shape corresponding to that of the said~~ region of interest.

28. (Currently Amended) The method of claim 27 wherein the said lens surface shape has a ~~shape corresponding to~~ is a column .

29. (Currently Amended) The method of claim 28 wherein the transformation increases ~~said lens surface functions to increase~~ the font size within a portion of the said column.

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30. (Currently Amended) The method of claim 29 wherein the said lens surface shape is tapered to provide a continuous transition on at least one either side of the said portion of the said column to undistorted unmagnified text.

31. (Currently Amended) The method of claim 18 and further comprising The use of a method for displaying visual information from portable document format (PDF) files on a display screen of a computer for, said method comprising the steps of:

scaling the said visual information to produce a sealed representation to fit on the said display screen said sealed representation containing the entire content of said visual information;

selecting a region of interest within said sealed representation;

applying a transformation to said sealed representation to improve the visual detail in said region of interest; and

displaying said transformed representation on said display screen .